



The Fourth Annual  
**Edward Teller Science &  
Technology Education Symposium**  
**September 19 - 20, 2003**

Researchers at the Lawrence Livermore National Laboratory will share cutting edge science and technology with secondary and community college science educators. Participants will receive state-of-the-art science information and lessons and activities that can be used upon return to the classroom. The lessons and activities are directly linked to the California Science Education Standards.

**What you will do:**

This symposium was designed by educators and scientists to immerse each participant in one of six specific themes consistent with the California Science Education Standards. During this two-day event, each participant will tour LLNL laboratories related to their chosen theme, discuss current research achievements with scientists and engineers, and work side-by-side with science professionals using hands-on activities developed for classroom application.

**Select one topic from the following content themes:**

- Physics: How opto-electronic technology is used to transfer data.
- Chemistry: How chemical and isotopic analyses are used to monitor the environment.
- Biology: Tools for proteomics: finding a protein "needle" in a cellular "haystack" (NEW)
- Environmental Science: How radiocarbon dating is used to determine historic events.
- Radiation Science: Detecting radiation in a radio active world.
- Biophotonics: Application of photonic technologies in biotechnology and medicine. (NEW)

**Opportunities to network with science professionals:**

There will be ample opportunity to network with both science professionals and colleagues in education. Participants will share informal conversation time with LLNL science professionals during the "Dinner with a Scientist" event on Friday evening, and during activities on Saturday.

**Keynote speaker:**

Dr. Elbert Branscomb, founding Director of the US Department of Energy's Joint Genome Institute (JGI). Currently Chief Scientist of the US DOE Human Genome Program.

**What you can take with you:**

- Classroom-ready lessons, with overhead slides, and activities.
- A first-hand look at state-of-the-art research facilities and research projects.
- Contacts with science, technology, and education professionals.
- One semester unit of college credit.

**Registration and participation:**

Participation is limited to 150 educators. U.S. Citizenship is required. Registration is available online at <http://education.llnl.gov/signup>. Contact Richard Farnsworth at 925-422-5059 or [farnsworth1@llnl.gov](mailto:farnsworth1@llnl.gov) for details. A \$50 conference registration fee is required.

Endorsed by the California Science Teachers Association